

2.1055 Frequency stability:
90.213

Temperature and voltage tests were performed to verify that the frequency remains within the .005%, 50 ppm specification limit. The test was conducted as follows: The transmitter was placed in the temperature chamber at 25 degrees C and allowed to stabilize for one hour. The transmitter was keyed ON for one minute during which four frequency readings were recorded at 15 second intervals. The worse case number was taken for temperature plotting. The assigned channel frequency was considered to be the reference frequency. The temperature was then reduced to -30 degrees C after which the transmitter was again allowed to stabilize for one hour. The transmitter was keyed ON for one minute, and again frequency readings were noted at 15 second intervals. The worst case number was recorded for temperature plotting. This procedure was repeated in 10 degree increments up to + 50 degrees C.

Readings were also taken at plus & minus 15% of the supply voltage of 13.6VDC.

MEASUREMENT DATA:

Assigned Frequency (Ref. Frequency): 218.262500 MHz

<u>TEMPERATURE°C</u>	<u>FREQUENCY_MHz</u>	<u>PPM</u>
REFERENCE_____	218.262 500	0.00
-30_____	218.260 325	-9.98
-20_____	218.261 510	-4.54
-10_____	218.262 315	-0.85
0_____	218.262 700	+0.92
+10_____	218.262 775	+1.26
+20_____	218.262 640	+0.64
+30_____	218.262 410	-0.41
+40_____	218.262 242	-1.18
+50_____	218.262 230	-1.24
-15% Supply Voltage VDC 10.2VDC	218.262 439	-0.28
+15% Supply Voltage VDC 13.8VDC	218.262 447	-0.24

The battery end point Voltage 12.0 VDC

RESULTS OF MEASUREMENTS: The maximum frequency variation over the temperature range was -9.98 to +1.26ppm. The maximum frequency variation over battery endpoint voltage range was -0.28 ppm.

APPLICANT: AES CORPORTATION

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